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Integrated and Coordinated Asset Management

“Michigan will lead the nation in creating agile infrastructure systems that include innovation technology, sustainable funding solutions, sound economic principals, a collaborative and integrated asset management and investment approach, and a delivery system that Michigan’s residents have confidence in.” – Michigan’s 21st Century Infrastructure Commission report

The 21st Century Infrastructure Commission identified one of the tenants to maintaining Michigan’s position as an infrastructure leader is to begin looking at infrastructure in an integrated and holistic way. In order to begin the process, the Commission recommended that Michigan engage in a pilot to develop and implement an integrated asset management database system which will help the state, regions, local governments and utilities make more informed, strategic decisions and coordinated investments.

Throughout the pilot program, agencies and communities in southeast and west Michigan have begun to develop the process of integrating drinking water, stormwater, wastewater and transportation assets into a comprehensive database that will eventually be used to support integrated planning efforts across these assets. Sixteen counties are involved in the pilot.

Developing one system that will work for the entire state is a complex task, one that will require agencies and communities from all over the state to work together. This pilot project is just the first step in the development of such a system. With the assistance of subject matter experts from both of the pilot areas, we have come together to work toward a process that would fulfill the vision of the 21st Century Infrastructure Commission.

The pilot approach consists of the following:

1. Collaborate with subject matter experts from both pilot areas to define the data and definitions that will go into one combined database for drinking water, waste, storm and transportation systems,
2. Work with representative agencies and communities in each of the pilot areas during the pilot project to collect existing data and develop a demonstration database with the data,
3. Perform and report a basic analysis of the data,
4. Identify what processes can be improved,
5. Recommend revisions to processes and procedures used in developing the pilot.

The results of the pilot will not only help inform a statewide system, but will help to transform how we manage infrastructure in Michigan. The pilot will result in:

- Procedures that will lead to the successful integration of drinking water, storm, sanitary and pavement assets.
- One consistent integrated database and data dictionary of defined assets.
- Identified costs to collect data to fill in gaps in the pilot areas and estimate costs to collect data consistent with the developed data base for the entire state.
- Recommended policies and practices that should be implemented or revised to better coordinate with the development of a consistent database in the future.
- These details will be documented in a summary of findings that will be presented to the governor and the newly formed statewide Infrastructure Council for their consideration in moving this effort from the pilot areas to the entire state.

PILOT VISION

Michigan has:

- A culture of asset management across all infrastructure assets.
- A statewide assessment of our transportation, water, sewer and stormwater infrastructure.
- A long-term integrated asset management strategy that results in coordination and increased cost efficiencies for utilities and local agencies of all sizes.
- The data and information needed to determine funding levels, and the incentives needed, for strategic infrastructure investments.

PILOT MISSION

- Build a culture of asset management across the state.
- Develop consistency across asset owners in asset standards and management practices.
- Create mechanisms for coordinated planning and communication across asset owners and types statewide.
- Develop a system that will support our understanding of assets and enable us to make informed decisions at a local, regional and state level.

Meeting Update:

July 19, 2017 - Subject Matter Expert Workshop #2

As outlined in June's newsletter, subject matter experts from transportation, drinking water, wastewater and stormwater across state and local government, including state agencies and members of the consulting community held discussions to initiate the process of defining key assets and attributes for the pilot program. Individual asset class breakout sessions began to broadly identify the multitude of factors that influence asset management decisions.

On July 19th, subject matter experts met in Lansing for the second workshop to discuss feedback from the initial discussions and to come to an agreement on what is achievable during the pilot, and which assets and attributes should be included and measured as part of the pilot program. Goals and outcomes for the meeting included an agreed consent on determining the assets in a Phase 1 and Phase 2 approach. Phase 1 includes core assets and attribute data that are attainable within the next three months of the data collection period, whereas Phase 2 will include considerations as part of a long term asset management plan. A subsequent key consideration incorporates a consensus on defining general condition assessments that could be adopted not only across both urban and rural communities, but also in collaboration with existing agency requirements. As part of a collaborative and integrated asset management framework, this uniform language and rating system is vital to the program's success and sustainability.

Within each asset, a matrix was established to help set the framework for data collection, identifying which asset components to include and which data points, including (asset ID or location, length/type, material, size, age, expected useful/remaining, and services history, etc.) to qualify or quantify. Subject matter experts agreed that this matrix, along with the determination of confidence levels, will additionally help communities determine where data

gaps exist to enable a more successful statewide implementation.

SME's from the Water assets also met with representatives from the DEQ to discuss requirements for asset management; what it is, why it is important, and how the pilot can be a catalyst for a more integrated, aligned, and standardized strategy long term.

Meeting Update:

July 20, 2017 – Energy and Broadband Meeting

July 20th brought together pilot stakeholders and members of Michigan's private energy and broadband utilities for an initial discussion about the Infrastructure Asset Management pilot and how the private companies can play an integral part of the program. Planning, designing, and executing successful infrastructure projects requires integrated planning and management across both public and private infrastructure. As such, a number of significant general and pilot specific factors were discussed including:

- Enriching coordination and collaboration between private and public infrastructure owners.
- Improving strategies to understanding state and regional infrastructure plans, comprising of better communication regarding right-of-way and overall projects where private utilities will play a role.
- Creating more consistency and accountability for coordinated planning and tracking of infrastructure projects at the state, regional and local level.
- Standardization of the permitting process to help reduce frustration between public and private project coordination.
- Utilizing existing asset management planning and currently available energy and broadband data to identify gaps, create more efficiencies, and better prioritize short term and longer term needs.
- Possible creation of an annual forum for state and regional stakeholders to better communicate and share information /data related to major infrastructure and right-of-way projects.

Security Protocols

An important component of developing and implementing a successful asset management pilot, and eventual integrated statewide asset management program is the identification of data sharing and security protocols. As such, the pilot has set up a dedicated security workstream to discuss and resolve important issues related to security, confidentiality, and data sharing across the physical, cyber, and legal environment. The group is a resource to you for shared input and as a method to express concerns or ask questions related to security. In the coming months we will begin communicating results of our collective discussions, however please contact Therese Empie at empieT@michigan.gov with any questions.

Upcoming Meetings:

August 4

Pilot Stakeholder and Advisory Board Quarterly Meeting
9:00 a.m. – 12:00 p.m. in Lansing, MI

August 30

Stakeholder Committee Meeting
1:00 p.m. – 4:00 p.m. in Lansing, MI

Next Steps

1. Data packets and IT system requirements under development.
2. Conversations on coordination, communication and potential data opportunities with the communications and utilities groups are continuing.

Reminder

You can access applicable meeting notes, resources, and presentations on the MI Infrastructure Asset Management pilot SharePoint site. If you do not have an account set up please contact Therese Empie at empieT@michigan.gov for additional information.

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